

CLAIMS

What is claimed is:

1. A computer having a main casing to accommodate a plurality of hardware components such as a CPU, comprising:
 - a heat dissipating assembly which is disposed on the CPU and includes a heat transmitter formed with a through hole and a plurality of heat dissipating fins standing on the heat transmitter so as to dissipate heat generated by the CPU;
 - a supporter installed in the heat dissipating fins, the supporter being disposed perpendicularly to the heat dissipating fins; and
 - a push member comprising:
 - a lever pivoted on the supporter, and
 - a push rod connected to the lever and passing through the through hole, the push rod traveling through the through hole in a direction such that the heat transmitter separates from the CPU when the lever is operated.
2. The computer according to claim 1, wherein the lever is operated by lifting the lever away from the CPU so that the lever pivots on the supporter.
3. The computer according to claim 1, wherein the push rod is parallel with the heat dissipating fins.
4. The computer according to claim 3, wherein the lever is transverse to the heat dissipating fins and comprises:
 - a first end connected to the push rod, and
 - a second end exposed to an outside of the heat dissipating fins.
5. The computer according to claim 4, further comprising a hinge to rotatably connect the push rod with the lever, wherein the hinge includes hinge holes respectively formed in both the push rod and the lever, and a hinge pin rotatably inserted in the hinge holes.

6. The computer according to claim 1, further comprising:
a flange radially protruding from the push rod, and
a spring member having a first end supported by the flange and a second end supported by the heat transmitter, wherein the spring returns the lever to an original position after the lever is operated..

7. The computer according to claim 6, further comprising:
a groove formed on the lever and supported by the supporter, and
supporter holes formed on the heat dissipating fins, the supporter holes being arranged perpendicularly to the respective heat dissipating fins, wherein the supporter is inserted in the supporter holes and the supporter is parallel with the heat transmitter.

8. The computer according to claim 7, wherein the main casing accommodates a main board mounted with a CPU socket into which the CPU is inserted.

9. The computer according to claim 8, wherein a thermal resistance reducer is interposed between the CPU and the heat transmitter to reduce thermal resistance.

10. The computer according to claim 9, wherein the thermal resistance reducer is a thermal pad or a thermal grease.

11. The computer according to claim 9, wherein the heat dissipating assembly further comprises a cooling fan disposed on the heat dissipating fins to cool the heat dissipating fins.

12. The computer according to claim 3, further comprising:
a flange radially protruded from the push rod, and
a spring member having a first end supported by the flange and a second end supported by the heat transmitter.

13. The computer according to claim 12, further comprising:
a groove formed on the lever and supported by the supporter, and

supporter holes formed on the heat dissipating fins, the supporter holes being arranged perpendicularly to the respective heat dissipating fins, wherein the supporter is inserted in the supporter holes.

14. The computer according to claim 13, wherein the main casing accommodates a main board mounted with a CPU socket into which the CPU is inserted.

15. The computer according to claim 14, wherein a thermal resistance reducer is interposed between the CPU and the heat transmitter to reduce thermal resistance.

16. The computer according to claim 15, wherein the thermal resistance reducer is a thermal pad or a thermal grease.

17. The computer according to claim 15, wherein the heat dissipating assembly further comprises a cooling fan disposed on the heat dissipating fins to cool the heat dissipating fins.

18. The computer according to claim 5, further comprising:
a flange radially protruded from the push rod, and
a spring member having a first end supported by the flange and a second end supported by the heat transmitter.

19. The computer according to claim 18, wherein when the lever is operated, the push rod presses against the CPU and the spring is compressed between the flange and the heat transmitter, and when the lever is released, the spring returns the lever to an original position.

20. The computer according to claim 18, further comprising:
a groove formed on the lever and supported by the supporter, and
supporter holes formed on the heat dissipating fins, the supporter holes being arranged perpendicularly to the respective heat dissipating fins, wherein the supporter is inserted in the supporter holes.

21. The computer according to claim 20, wherein the main casing accommodates a main board mounted with a CPU socket into which the CPU is inserted.

22. The computer according to claim 21, wherein a thermal resistance reducer is interposed between the CPU and the heat transmitter to reduce thermal resistance.

23. The computer according to claim 22, wherein the thermal resistance reducer is a thermal pad or a thermal grease.

24. The computer according to claim 22, wherein the heat dissipating assembly further comprises a cooling fan disposed on the heat dissipating fins to cool the heat dissipating fins.

25. The computer according to claim 23, wherein damage to the CPU is minimized by separating the CPU from the CPU socket only after operating the lever and thereby separating the heat transmitter from the CPU.

26. A computer, comprising:
a CPU;
a heat transmitter to dissipate heat generated by the CPU, the heat transmitter formed with a through hole;
a thermal resistance reducer interposed between the CPU and the heat transmitter to reduce thermal resistance;
a supporter,
a lever pivoted on the supporter, and
a push rod connected to the lever and passing through the through hole such that when the lever is operated, the push rod travels through the through hole in a direction such that the heat transmitter is separated from the CPU.

27. The computer of claim 26, further comprising:
a plurality of through holes formed in the heat transmitter; and
a plurality of push rods connected to the lever such that when the lever is operated, the plurality of push rods travel through the plurality of through holes, respectively, in a direction such that the heat transmitter is separated from the CPU.

28. An apparatus separating a heat transmitter and a CPU, comprising:
a supporter combined with the heat transmitter,
a lever pivoted on the supporter, and
a push rod connected to the lever and contacting the CPU such that when the lever is operated, the push rod forces the heat transmitter away from the CPU, thereby separating the heat transmitter from the CPU.